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Forestry Abstracts

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CAB INTERNATIONAL FORESTRY BUREAU

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For further details of the whole range of CAB International publications and services see back cover.

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CAB International (CABI) is an international, intergovernmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 29, but membership is open to all governments who wish to participate. Established in 1928, the organization provides information, scientific, and development services for agriculture and allied disciplines throughout the world.

Information Services

The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

Agricultural Economics
Animal Breeding & Genetics
Animal Health
Dairy Science & Technology
Nutrition
Pastures & Field Crops
Crop Protection
Horticulture & Plantation Crops
Plant Breeding & Genetics
Soils
Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services worldwide.

Scientific Services

CABI's Scientific Services consist of four Institutes and two support services:

CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

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The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and PAGER for typesetting and information retrieval.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

CAB INTERNATIONAL INFORMATION SERVICES
PRODUCTS AND SERVICES

Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10,000 serials and many other publications are scanned, and approximately 130,000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

HARD COPY PRODUCTS

Abstract journals

The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

Animal Science and Production
Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B-Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases
Helminthological Abstracts; Index Veterinarius; Protozoological Abstracts; Review of Medical & Veterinary Entomology; Review of Medical & Veterinary Mycology; Veterinary Bulletin.

Crop Science and Production
Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Postharvest News and Information; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Sugar Industry Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry
Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Crop Protection
Biocontrol News & Information; Nematological Abstracts; Review of Agricultural Entomology; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology
Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Machinery and Buildings
Agricultural Engineering Abstracts.

Human Nutrition
Nutrition Abstracts & Reviews, Series A-Human & Experimental.

Biotechnology/Biodeterioration
AgBiotech News & Information; Biodeterioration Abstracts.

Also published is a series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *Chickpeas/Pigeonpeas*. In addition, many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their choice, either as computer printout or on floppy discs suitable for most microcomputers. Delivery by airmail.

CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

MACHINE-READABLE PRODUCTS AND SERVICES

Online Access

The machine-readable database, known as CAB ABSTRACTS, is publicly accessible online through DIALOG Information Services (USA), BRS Information Technologies (USA), ESA-IRS (Italy), DIMDI (GFR), JICST (Japan), CAN-OLE (Canada) and Tsukuba Daigaku (Japan). The whole database back to 1973 contains over 2 million records. Search aids include the CAB ABSTRACTS Online Manual, the CAB Thesaurus (1988 Edition) and the CAB International Serials Checklist (1988).

CAB ABSTRACTS on Compact Disc

The database is also available on CD-ROM (Compact Disc Read Only Memory). Volume one contains bibliographic citations and abstracts for 1984-86; the second volume contains the 1987-89 data. CD-ROM technology provides an online search capability without the worries of cost or telecommunication problems. An IBM or fully IBM-compatible PC, 640 K RAM, MS-DOS or PC-DOS version 2.1 or higher, and a CD-ROM player are needed. The SPIRS (SilverPlatter Information Retrieval System) software allows maximum search flexibility.

Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research, Outlook on Agriculture, Index of Current Research on Pigs, Distribution Maps of Pests, Distribution Maps of Plant Diseases, Bibliography of Systematic Mycology, Descriptions of Pathogenic Fungi & Bacteria, Index of Fungi,* and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts.*

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Forestry Abstracts (FA) is a monthly journal prepared by the Bureau and published by C·A·B International.

The journal is available at a special rate to subscribers in countries which make a financial contribution to C·A·B International.

Other journals prepared by the Bureau:

Forestry Products Abstracts (FPA)
This monthly journal deals with extraction, utilization and marketing of wood and other forest products.

Agroforestry Abstracts (AFA)
This quarterly journal covers: agroforestry systems and related types of land use; crops and animals for agroforestry; agroforestry products; environmental and socioeconomic aspects; and R&D.

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READERS' GUIDE

1. Terminology. Terms included in the *Concise Oxford Dictionary, Chamber's Dictionary of Science and Technology* and the *Terminology of Forest Science, Technology, Practice and Products* are used without explanation. Other terms from particular sciences may also be used without explanation if it is thought that they are familiar to those readers likely to be concerned.

2. Bibliographic Citations:

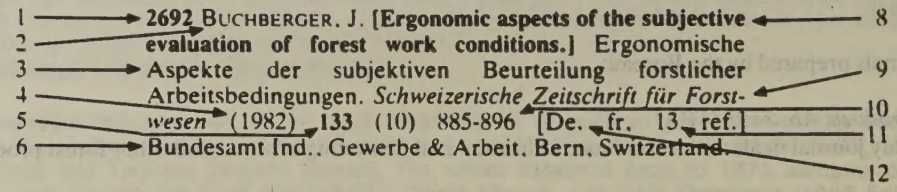
(a) Titles. Titles are given in the original language if a Latin alphabet is used. Russian (but generally not other Cyrillic alphabets) and Greek are given in standard transliterations for whole publications. English translations – often shortened – are given in square brackets.

(b) Language symbols. Capital initial letters indicate the language of the text, small letters the language(s) of the summary. The following abbreviations are used:

Af = Afrikaans	Fr = French	Nl = Dutch
Ar = Arabic	Gr = Greek	No = Norwegian
Az = Azerbaijan(i)/Azerbaidzhani/Azerbaidzhanian	He = Hebrew	Pe = Persian
	Hu = Hungarian	Pl = Polish
Be = White Russian	In = Indonesian	Pt = Portuguese
Bg = Bulgarian	Is = Icelandic	Ro = Romanian
Ch = Chinese	It = Italian	Ru = Russian
Cs = Czech	Ja = Japanese	Sh = Serbo-Croatian
Da = Danish	Ko = Korean	Sk = Slovakian
De = German	La = Latin	Sn = Slovenian
Ee = Estonian	Li = Lithuanian	Sv = Swedish
En = English	Lv = Latvian	Ta = Tajik/Tadzhik
Es = Spanish	Ma = Macedonian	Tr = Turkish
Fi = Finnish	My = Malay/Bahasamalaysia	Uk = Ukrainian

(c) Back References. These refer to notices in previous issues and appear in square brackets with an indication of volume and abstract number, e.g. [See *FA 41*, 3456.] [See *FPA 3*, 1234.]

(d) What an abstract contains.


1 2692 BUCHBERGER, J. [Ergonomic aspects of the subjective
2 evaluation of forest work conditions.] Ergonomische
3 Aspekte der subjektiven Beurteilung forstlicher
4 Arbeitsbedingungen. Schweizerische Zeitschrift für Forst-
5 wesen (1982) 133 (10) 885-896 [De, fr, 13 ref.]
6 Bundesamt Ind., Gewerbe & Arbeit, Bern, Switzerland.
8
9
10
11
12

7 A report based on interviews with more than 300 forest workers and about 400 apprentices from German and French-speaking Cantons in Switzerland. Topics include: age group in relation to general evaluation of forest work; sources of job dissatisfaction; motives for choice of job; parts of body stressed during forest work; and environmental (climate, noise, vibration, exhaust) stresses. Important differences were frequently found between attitudes of workers in German vs. French Cantons; in some cases these related to (objectively) poorer working conditions in French-speaking Cantons.

(1)	Abstract number	(7)	Abstract
(2)	Author	(8)	English title
(3)	Foreign title	(9)	Journal title
(4)	Year of publication	(10)	Page numbers
(5)	Volume, part numbers	(11)	Supplementary data
(6)	Author's affiliation	(12)	Language of text, summary

3. Abbreviations, units and symbols used in abstracts. Standard SI symbols are used for metric units; these are not included here unless they are similar to other abbreviations, units or symbols used. Chemical symbols may also be used. Occasionally, other symbols not listed here are used when it is thought that they will present no difficulty to the readers concerned; this includes many geographical abbreviations such as ACT, UK, PA, etc.

a	are
Å	ångström
AAS	atomic absorption spectrometry
ABA	abscisic acid
a.c.	alternating current
ACTH	adrenocorticotropic hormone
ADF	acid detergent fibre
ad lib.	*ad libitum* (to amount wished)
ADP	adenosine diphosphate
a.e.	acid equivalent
AFNOR	Association Francaise de Normalisation
AFOCEL	Association Forêt–Cellulose
a.i.	active ingredient
AI	artificial insemination
alt.	altitude
AMP	adenosine monophosphate
approx.	approximately
Apr.	April
ARMEF	Association pour la Rationalisation et le Mécanisation de l'Exploitation Forestière
ASTM	American Society for Testing Materials
atm	(standard) atmosphere
ATP	adenosine triphosphate
Aug.	August
av.	average
b.a.	basal area
bd ft	board feet
b.h.	breast height
BOD	biological oxygen demand
b.p.	boiling point
BP	before present
BS(I)	British Standard(s) (Institution)
Btu	British thermal unit
bu	bushel
CA	controlled atmosphere
c.a.i.	current annual increment
cal	calorie
cAMP	cyclic adenosine monophosphate
CCA	copper chrome arsenate
Cd	candela
CEC	cation exchange capacity
CF	crude fibre
CGR	crop growth rate
Ci	curie
CNS	central nervous system
COD	chemical oxygen demand
coeff.	coefficient
COMECON	Council for Mutual Economic Aid
conc.	concentrated
concn.	concentration(s)
CP	crude protein
CR	conception rate
CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)
cv.	cultivar
CV	coefficient of variation
cwt	hundredweight
d	day
dB	decibel
d.b.h.	diameter at breast height
d.c.	direct current
DCP	digestible crude protein
DDM	digestible dry matter
DDT	dichlorodiphenyltrichloro–ethane
DE	digestible energy
Dec.	December
DIN	Deutsches Institut für Normung
dil.	dilute
DM	dry matter
diam.	diameter
DNA	deoxyribonucleic acid
DOM	digestible organic matter
DW	dry weight
E	einstein
E.	east
e.c.	emulsifiable concentrate
EC	European Communities
ECE	Economic Commission for Europe
ECG	electrocardiogram
EEG	electroencephalogram
e.g.	for example
ELISA	enzyme–linked immunosorbent assay
EM	electron microscope
e.m.c.	equilibrium moisture content
equiv.	equivalent
ESP	exchangeable sodium percentage
ESR	electron spin resonance
et al.	*et alii* (and others)
eV	electronvolt
f.	*forma* (form)
°F	degree Fahrenheit
F_1	first filial generation (also F_2 etc.)
FAO	Food and Agriculture Organization
FCM	fat-corrected milk
Feb.	February
f. sp.	*forma specialis* (special form)
ft	foot (feet)
FU	Feed Unit/Fodder Unit
FW	fresh weight
FYM	farmyard manure
g_n	gravity, standard
GA	gibberellic acid
gal	gallon (Imperial or US)
g.b.h.	girth at breast height
GC	gas chromatography
GCA	general combining ability
gen. nov.	*genus novum* (new genus)
GLC	gas–liquid chromatography
GOST	Gosudarstvennyi Obshchesoyuznyi Standart
Gram+	gram positive
Gram–	gram negative
h	hour
h^2	heritability
ha	hectare
Hb	haemoglobin
HCG	human chorionic gonadotropin
HCH	benzene hexachloride
hkg	hectokilogram
hp	horsepower
HPLC	high performance liquid chromatography
ht.	height
IAA	indoleacetic acid
IB	internal bond
IBA	indolebutyric acid
i.e.	that is
Ig	immunoglobulin
IR	infrared
ISO	International Organization for Standardization
IU	International unit
IUFRO	International Union of Forestry Research Organizations
Jan.	January
K_m	Michaelis constant
kgf	kilogramme-force
LAI	leaf area index
lat.	latitude
lb	pound (weight)
lbf	pound-force
LD	lethal dose
LH	luteinizing hormone
long.	longitude
LVL	laminated veneer lumber
M	molar
m.a.i.	mean annual increment
Mar.	March
max.	maximum
mbar	millibar
m.c.	moisture content
MDF	medium density fibreboard
ME	metabolizable energy
min	minute (time)
min.	minimum
MMA	methyl methacrylate
MOE	modulus of elasticity
mol	mole
mol.	molecular
MOR	modulus of rupture
m.p.	melting point
MS	mass spectrometry
MW	molecular weight
n	haploid chromosome number
N	normal (concentration)
N.	north
NAA	naphthyl acetic acid
NAD	nicotinamide adenine dinucleotide
NADH	nicotinamide adenine dinucleotide (reduced form)
NADP	nicotinamide adenine dinucleotide phosphate
NADPH	nicotinamide adenine dinucleotide phosphate (reduced form)
NAR	net assimilation rate
NDF	neutral detergent fibre
NE	north-east
NFE	nitrogen-free extract
NMR	nuclear magnetic resonance
Nov.	November
n.s.d.	no significant difference; not significantly different
NW	north-west
o.b.	over bark
Oct.	October

OECD	Organization for Economic Cooperation and Development
OM	organic matter
opt.	optimum
OSB	oriented structural board; oriented strandboard
oz	ounce
P	parental generation
P	probability
p.a.	per annum
PAGE	polyacrylamide gel electrophoresis
p.a.i.	periodic annual increment
PAL	phenylalanine ammonia lyase
PAR	photosynthetically active radiation
PCP	pentachlorophenol
PEG	polyethylene glycol
PEP	phosphoenol pyruvate
PF	phenol formaldehyde
Pfr	phytochrome, far-red form
PG	prostaglandin(s)
pH	hydrogen ion concentration
PMB	pregnant mare blood
PMC	pollen mother cell
PMS	pregnant mare serum
post-em.	post-emergence
p.p.m.	parts per million
pre-em.	pre-emergence
PSI, PSII	photosystem I, photosystem II
p.t.o.	power take-off
PVC	poly(vinyl chloride)
r	coefficient of correlation
R	röntgen
*R*B	coefficient of multiple correlation
rad	radiation absorbed dose (not radian, which is given in full)
rbc	red blood cells
resp.	respectively
rev.	revolution(s)
RF	resorcinol formaldehyde
RGR	relative growth rate
RH	relative humidity
RNA	ribonucleic acid
r.p.m.	revolutions per minute
S.	south
SAR	sodium absorption ratio
SCA	specific combining ability
s.d.	standard deviation
SDS	sodium dodecyl sulphate
SE	south-east
s.e.	standard error
SEM	scanning electron microsope
Sep.	September
s.l.	in a broad sense
SNF	solids-not-fat
sol.	solution(s)
sp., spp.	species (s. and pl.)
sp. nov.	*species nova* (new species)
s.s.	in a narrow sense
SSP	soluble sodium percentage
str.	strain
subf., subff.	*subforma* (subform) (s. and pl.)
subsp., subspp.	subspecies (s. and pl.)
subvar., subvars.	*subvarietas* (subvariety)(s. and pl.)
SW	south-west
syn.	synonym
t	tonne (not ton)
TCA	trichloroacetic acid
TDN	total digestible nutrients
TEM	transmission electron microscope
temp.	temperature(s)
t. & g.	tongued and grooved
TG	thermogravimetry
TLC	thin-layer chromatography
TMV	tobacco mosaic virus
TSS	total soluble solids
u.b.	under bark
UF	urea formaldehyde
UHF	ultra high frequency
UHT	ultra high temperature
ULV	ultra low volume
UNDP	United Nations Development Programme
USDA	United States Department of Agriculture
UV	ultraviolet
var., vars.	*varietas* (variety) (s. and pl.)
VFA	volatile fatty acid
VHF	very high frequency
viz.	namely
vol.	volume
vs.	versus
v/v	volume/volume
v/w	volume/weight
W.	west
wk	week
w.p.	wettable powder
wt.	weight
w/v	weight/volume
w/w	weight/weight
yr	year
3P	probability proportional to prediction
	standard deviation of a population
°	degree (angle)
′	minute (angle)
″	second (angle)
∥	parallel
⊥	perpendicular

4. Vernacular names. The vernacular names listed below may be used in abstracts instead of the Latin ones. Indexing is by Latin names.

acacia	*Acacia* (see also black wattle)
alder	*Alnus*
ash	*Fraxinus* (generally *F. excelsior* unless otherwise indicated)
Austrian pine	*Pinus nigra* (also Corsican pine)
balsa	*Ochroma pyramidale*
balsam fir	*Abies balsamea*
bamboo	Bambuseae
basswood	(see linden)
beech	*Fagus* (generally *F. sylvatica* unless otherwise indicated)
birch	*Betula* (*B. alba* is used for undifferentiated *B. pendula* and *B. pubescens*)
black spruce	*Picea mariana*
black walnut	*Juglans nigra*
black wattle	*Acacia mearnsii*
broadleaf hardwood)	Angiospermae (tree; see also
cashew	*Anacardium occidentale*
chir	*Pinus roxburghii*
coconut	*Cocos nucifera*
conifer	Coniferae (see also softwood)
Corsican pine	*Pinus nigra* (also Austrian pine)
deodar	*Cedrus deodara*
dipterocarp	Dipterocarpaceae
Douglas fir	*Pseudotsuga menziesii*
eastern hemlock	*Tsuga canadensis*
eastern white pine	*Pinus strobus* (also Weymouth pine)
elm	*Ulmus*
Engelmann spruce	*Picea engelmannii*
eucalypt	*Eucalyptus*
fig	*Ficus*
fir	*Abies* (see also Douglas fir)
hardwood	Angiospermae (timber; see also broadleaf)
hazel	*Corylus avellana*
hem–fir	*Tsuga* + *Abies* (lumber)
hemlock	(see eastern, western hemlock)
hickory	*Carya*
hinoki	*Chamaecyparis obtusa*
holly	*Ilex*
hoop pine	*Araucaria cunninghamii*
hornbeam	*Carpinus betulus*
jack pine	*Pinus banksiana*
juniper	*Juniperus*
kauri	*Agathis* (*A. australis* in New Zealand)
larch	*Larix* (see also tamarack)
linden	*Tilia* (also referred to elsewhere as 'lime' and 'basswood')
loblolly pine	*Pinus taeda* (see also southern pine)
lodgepole pine	*Pinus contorta*
longleaf pine	*Pinus palustris* (see also southern pine)
mango	*Mangifera indica*
maple	*Acer*
maritime pine	*Pinus pinaster*
mulberry	*Morus*
neem	*Azadirachta indica*
Norway spruce	*Picea abies*
oak	*Quercus* (*Q. robur* is used for undifferentiated *Q. robur* and *Q. petraea*)
palm	Palmae
Parana pine	*Araucaria augustifolia*
pine	*Pinus* (see also hoop pine, Parana pine)
ponderosa pine	*Pinus ponderosa*
poplar	*Populus* (see also yellow poplar)
radiata pine	*Pinus radiata* (also referred to elsewhere as 'Monterey pine')
rattan	*Calamus* and/or *Daemonorops* (mainly)
red oak	*Quercus rubra* (northern red oak of the USA)
robinia	*Robinia pseudoacacia* (also referred to elsewhere as 'false acacia','locust' etc.)
rubber	*Hevea brasiliensis* (unless otherwise indicated)
sal	*Shorea robusta*
sandalwood	*Santalum album*
Scots pine	*Pinus sylvestris*
shortleaf pine	*Pinus echinata* (see also southern pine)
silver fir	*Abies alba*
Sitka spruce	*Picea sitchensis*
slash pine	*Pinus elliottii* (see also southern pine)
softwood	Gymnospermae (timber; see also conifer)
southern pine	*Pinus echinata, P. elliottii, P. palustris* and *P. taeda* (indexed as *P.* 'Southern')
spruce	*Picea*
sugar maple	*Acer saccharum*
sugi	*Cryptomeria japonica*
sweetgum	*Liquidambar styraciflua*
tamarack	*Larix laricina*
teak	*Tectona grandis*
walnut	*Juglans regia* (see also black walnut)
Weymouth pine	*Pinus strobus* (also eastern white pine)
white oak	*Quercus alba*
white spruce	*Picea glauca*
western hemlock	*Tsuga heterophylla*
willow	*Salix*
yellow poplar	*Liriodendron tulipifera* (also referred to as 'tulip tree')
yew	*Taxus baccata* (other species by Latin names)

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Many other serials were scanned during 1989 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSNs and publishers' addresses. See a separate page of this Index for details.

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Acta Amazonica
Acta Botanica Academiae Scientiarum Hungaricae
Acta Botanica Fennica
Acta Botanica Hungarica
Acta Botanica Indica
Acta Botanica Neerlandica
Acta Botanica Sinica
Acta Dendrobiologica
Acta Ecologica Sinica
Acta Entomologica Sinica
Acta Facultatis Forestalis, Hungary
Acta Facultatis Ligniensis, Hungary
Acta Facultatis Rerum Naturalium Universitatis Comenianae, Physiologia Plantarum
Acta Forestalia Fennica
Acta Genetica Sinica
Acta Horticulturae
Acta Horticulturae Sinica
Acta Microbiologica Polonica
Acta Microbiologica Sinica
Acta Mycologica Sinica
Acta Oecologica, Oecologia Plantarum
Acta Pedologica Sinica
Acta Physiologiae Plantarum
Acta Phytophylacica Sinica
Acta Scientiarum Naturalium Universitatis Sunyatseni
Acta Sericologica Sinica
Acta Societatis Botanicorum Poloniae
Acta Universitatis Agriculturae Brno, A (Facultas Agronomica)
Actes des Colloques Insectes Sociaux
Actividades en Turrialba
Advances in Cell Culture
Advances in Forestry Research in India
Advances in Horticultural Science
Advances in Microbial Ecology
Advisory Leaflet, Department of Forestry, Queensland
African Journal of Ecology
Afrika Studien, IFO-Institut für Wirtschaftsforschung München
Agricultural and Biological Chemistry
Agricultural and Forest Meteorology
Agricultural Science
Agricultural Situation in India
Agricultural Systems
Agricultural University Wageningen Papers
Agricultural Water Management
Agriculture and Human Values
Agriculture Handbook, US Department of Agriculture
Agriculture, Ecosystems and Environment
Agro
Agro Sur
Agro-Ciencia
Agroforestry Systems
Agroforestry Today
Agrologist
Agronomie
Agrotecnia de Cuba
AI Applications in Natural Resource Management
Aliso
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Allgemeine Forst- und Jagdzeitung
Allgemeine Forstzeitschrift
Allgemeine Forstzeitung
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Ambio
American Journal of Botany
American Midland Naturalist
American Naturalist
American Nurseryman
American Scientist
Anais da Escola Superior de Agricultura 'Luiz de Queiroz'
Anais do Instituto Superior de Agronomia, Universidade Técnica de Lisboa
Anales de Edafología y Agrobiología
Anales del Instituto Nacional de Investigaciones Agrarias, Forestal, Spain
Anales del Instituto Nacional de Investigaciones Agrarias, Recursos Naturales, Spain
Anali za Šumarstvo
Angewandte Botanik
Angewandte Pflanzensoziologie, Forstliche Bundesversuchsanstalt Wien
Annales Botanici Fennici
Annales de Gembloux
Annales de l'Institut National Agronomique El-Harrach, Algeria
Annales de la Recherche Forestière au Maroc
Annales des Sciences Forestières
Annales Historico-Naturales Musei Nationalis Hungarici
Annales, Musée Royal de l'Afrique Centrale, Belgium, 8 (Sciences Economiques)
Annali dell'Istituto Sperimentale per la Floricoltura, Italy
Annali della Facoltà di Agraria, Università degli Studi di Perugia
Annali della Facoltà di Scienza Agrarie della Università degli Studi di Napoli, Portici, IV
Annals of Allergy
Annals of Applied Biology
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Annals of Entomology
Annals of the Entomological Society of America
Annals of the Missouri Botanical Garden
Annals of the Phytopathological Society of Japan
Annals of Warsaw Agricultural University SGGW-AR, Horticulture
Annual Report, Institute for Commercial Forestry Research, University of Natal
Annual Report, Kanto Forest Tree Breeding Institute, Japan
Annual Report, Mulga Research Centre, Australia
Annual Review of Ecology and Systematics
Anuário da Sociedade Broteriana
Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz
Applied and Environmental Microbiology
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Applied Geography
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Arbetsrapport, Institutionen för Skogsekonomi, Sveriges Lantbruksuniversitet
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Arboricultural Journal
Arboriculture Research Note, Department of the Environment, UK
Archiv für Naturschutz und Landschaftsforschung
Archiv für Phytopathologie und Pflanzenschutz
Archives of Environmental Contamination and Toxicology
Arctic and Alpine Research
Arid Soil Research and Rehabilitation
Arquivos do Jardim Botânico do Rio de Janeiro
Artículo Científico, Escuela Nacional de Ciencias Forestales, Honduras
Aspects of Applied Biology
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Atmospheric Environment
Aus dem Walde, Mitteilungen aus der Niedersächsischen Landesforstverwaltung
Australasian Plant Pathology
Australian Forestry
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Australian Journal of Plant Physiology
Australian Journal of Soil Research
Australian Journal of Zoology
Australian Rangeland Journal

Australian Systematic Botany
Australian Veterinary Journal
Australian Wildlife Research
Austrobaileya
Banko Janakari
Bano Biggyan Patrika
Baumschulpraxis
Beihefte zum Tübinger Atlas des Vorderen Orients, A (Naturwissenschaften)
Beiträge für die Forstwirtschaft
Berichte Umweltbundesamt, German Federal Republic
Berichte, Eidgenössische Anstalt für das Forstliche Versuchswesen, Switzerland
Bio/Technology
Biochemical Journal
Biochemical Systematics and Ecology
Biochemie und Physiologie der Pflanzen
Biochimie
Biogeochemistry
Biológia, Czechoslovakia
Biological Conservation
Biological Journal of the Linnean Society
Biologicheskie Nauki
Biology and Fertility of Soils
Biology International
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BIOTROPIA
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Bois et Forêts des Tropiques
Boissiera
Boletim de Pesquisa Florestal, Centro Nacional de Pesquisa de Florestas, EMBRAPA, Brazil
Boletim de Pesquisa Florestal, Unidade Regional de Pesquisa Florestal Centro-Sul, EMBRAPA, Brazil
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Boletim Técnico do Instituto Florestal, São Paulo
Boletim Técnico, Empresa de Pesquisa Agropecuária de Minas Gerais
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Boletín ACOFORE
Boletín de la Estación Central de Ecología
Boletín de Reseñas, Serie Forestales
Boletín de Sanidad Vegetal, Plagas
Boletín Divulgativo, Instituto Nacional de Investigaciones Forestales, Mexico
Boletín Técnico Forestal
Boletín Técnico, Centro Agronómico Tropical de Investigación y Enseñanza, Costa Rica
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Boletín Técnico, Proyecto de Asentamiento Rural Integral de Jenaro Herrera, Peru
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Botanica Acta
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Bulletin de l'Académie des Sciences Agricoles et Forestières, Romania
Bulletin de la Société Botanique de France, Actualités Botaniques
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Bulletin de la Société Royale de Botanique de Belgique
Bulletin des Recherches Agronomiques de Gembloux
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Bulletin OEPP
Bulletin of Entomological Research
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Bulletin of Fukuoka-Ken Forest Experiment Station, Japan
Bulletin of the Botanical Survey of India
Bulletin of the Ehime University Forest
Bulletin of the Faculty of Agriculture, Kagoshima University
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Bulletin of the Forest Tree Breeding Institute, Japan
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Bulletin of the Ibaraki Prefectural Forest Experiment Station, Japan
Bulletin of the Institute of Zoology, Academia Sinica
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Bulletin Trimestriel, Centre de Populiculture du Hainaut
Bulletin, Agricultural Experiment Station, University of California
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Bulletin, Central Soil Salinity Research Institute, ICAR, India
Bulletin, Division of Silviculture, Office of Forests, Papua New Guinea
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Cahier des Journées Horticoles Ornementales
Cahiers ORSTOM, Entomologie Médicale et Parasitologie
CAMCORE Bulletin on Tropical Forestry, Central America and Mexico Resources Cooperative, North Carolina State University
Canadian Entomologist
Canadian Field-Naturalist
Canadian Journal of Botany
Canadian Journal of Forest Research
Canadian Journal of Remote Sensing
Canadian Public Policy
Canopy International
Carbohydrate Research
Časopis Slezského Muzea, Vědy Přírodní
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CAZRI Monograph, Central Arid Zone Research Institute, India
CEGB Research
Centralblatt für das Gesamte Forstwesen
Centro Agrícola
Ceylon Journal of Science, Biological Sciences
CFRU Research Bulletin, College of Forest Resources, University of Maine
Chasqui, Costa Rica
Chemical & Pharmaceutical Bulletin
Chemical Communications
Chemistry and Industry of Forest Products
Chemosphere
Chinese Journal of Biological Control
Ciencia Forestal
Ciencias Ambientales
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Científica
Circular Técnica, Centro de Pesquisa Agropecuária do Trópico Úmido, EMBRAPA, Brazil
Circular Técnica, Unidade Regional de Pesquisa Florestal Centro-Sul, EMBRAPA, Brazil
CLEO-Schriften, Centrum voor Landbouw-Economisch Onderzoek, Katholieke Universiteit te Leuven
CMU Journal of Agriculture, Food and Nutrition
Coconut Bulletin, Sri Lanka
COJFRC Symposium Proceedings, Great Lakes Forest Research Centre, Canada
Coleopterists' Bulletin
Colloque, Centre de Populiculture du Hainaut
Colloques de l'INRA
Combined Proceedings, International Plant Propagators' Society
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Contribution, California Water Resources Center, University of California
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Current Research, University of Agricultural Sciences, Bangalore
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Dansk Skovforenings Tidsskrift
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Departmental Paper, College of Tropical Agriculture and Human Resources, University of Hawaii
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Documentos, Centro Nacional de Pesquisa Agropecuária do Trópico Semi-Árido, EMBRAPA, Brazil
Documentos, Centro Nacional de Pesquisa de Florestas, EMBRAPA, Brazil
Documentos, Unidade Regional de Pesquisa Florestal Centro-Sul, EMBRAPA, Brazil
Documents de Cartographie Écologique
Doga Türk Botanik Dergisi
Doğa, Tarım ve Ormancılık
Doklady Akademii Nauk BSSR
Doklady Biological Sciences
Drevársky Výskum
Düsseldorfer Geobotanische Kolloquien
Duta Rimba
Earth Surface Processes and Landforms
East African Agricultural and Forestry Journal
Ecología, Argentina
Ecological Bulletins
Ecological Entomology
Ecological Modelling
Ecological Monographs
Ecological Review
Ecology
Economic Botany
Economic Development and Cultural Change
Economic Geography
Ecos, UK
Ecotoxicology and Environmental Safety
Ediciones, Instituto Mexicano de Recursos Naturales Renovables
Eesti NSV Teaduste Akadeemia Toimetised, Bioloogia
Ekológia, ČSSR
Energy Department Paper, World Bank
Energy, UK
Entomologia Experimentalis et Applicata
Entomologia Generalis
Entomologica
Entomologische Nachrichten und Berichte
Entomologisk Tidskrift
Entomologiske Meddelelser
Entomon
Entomophaga
Environment and Ecology
Environmental and Experimental Botany
Environmental Conservation
Environmental Encounters Series, Council of Europe
Environmental Entomology
Environmental Pollution
Environmental Studies Occasional Paper, University of Tasmania
Environmental Studies Working Paper, University of Tasmania
Environmental Technology Letters
Environmental Toxicology and Chemistry
Eos
Erdészeti és Faipari Tudományos Közlemények
Erdészeti Kutatások
Erdő
Estudio, Proyecto Específico Forestal, Centro de Investigación y Capitación Forestal, Peru
Estudios e Informes de la CEPAL
Ethnozootechnie
Études Écologiques, Laboratoire d'Écologie Forestière, Université Laval
European Journal of Biochemistry
European Journal of Forest Pathology
Evergreen
Evolution
Experientia
Experimental Agriculture
Faipar
FAO Conservation Guide
FAO Economic and Social Development Studies
FAO Forestry Paper
FAO Legislative Study
FEBS Letters
FEN Research Reports, Food-Energy Nexus Programme, United Nations University
Fiche Technique, Centre de Formation Professionnelle Forestière 'Fofampiala', Morondava, Madagascar
Field Document, HMG/UNDP/FAO Community Forestry Development Project, Nepal
Field Operations Job Instruction Sheet, Forest Division, Solomon Islands
Field Report Series, Institute of Southeast Asian Studies, Singapore
FIPR Publication
Fitopatologia Brasileira
Fitoterapia
Flavour and Fragrance Journal
Flora de Veracruz, Instituto Nacional de Investigaciones sobre Recursos Bióticos, Mexico
Flora, German Democratic Republic
Floresta
Florida Entomologist
Focus on Nature Conservation
Folia Forestalia Polonica, B (Drzewnictwo)
Folia Forestalia, Institutum Forestale Fenniae
Folia Geobotanica et Phytotaxonomica
Foliage Digest
Food Chemistry
Förderungsdienst
Forest Ecology and Management
Forest News
Forest Operations Job Instruction Sheet, Forest Division, Solomon Islands
Forest Pest and Disease
Forest Products Industries
Forest Recreation Research
Forest Research
Forest Research Booklet, Forest Research Centre, Forestry Commission, Zimbabwe
Forest Research Information Paper, Ministry of Natural Resources, Ontario
Forest Research Note, Forestry Division, Solomon Islands
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Forest Research Report, Ministry of Natural Resources, Ontario
Forest Research Report, Usutu Pulp Company Limited, Swaziland
Forest Research Report, Vanuatu Forest Service
Forest Science
Forest Science and Technology
Forest Tree Improvement, Arboretet Hørsholm, Denmark
Forestry
Forestry and British Timber
Forestry Chronicle
Forestry Commission Bulletin, UK
Forestry Commission Field Book, UK
Forestry Commission Handbook, UK
Forestry Handbook, Department of Agriculture and Forestry, Vanuatu
Forestry Note, Forestry Division, Solomon Islands
Forestry Project Profile, Food and Agriculture Organization of the United Nations
Forestry Report, Southern Region, USDA Forest Service
Forestry Research Report, Department of Forestry, Agricultural Experiment Station, University of Illinois
Forestry Technical Papers, Forests Commission, Victoria, Australia
Forêt Méditerranéenne
FORI How-To Series, Forest Research Institute, Philippines
Forst- und Holzwirt
Forstarchiv
Forstliche Forschungsberichte München
Forsttechnische Informationen
Forstwissenschaftliches Centralblatt
Forum, Sekolah Pasca Sarjana, Institut Pertanian Bogor
Fragmenta Floristica et Geobotanica

FRDA Report, Canada/British Columbia Forest Resource Development Agreement
Freiburger Waldschutz-Abhandlungen
Fresenius' Zeitschrift für Analytische Chemie
Freshwater Biology
FRI Bulletin, Forest Research Institute, New Zealand
Functional Ecology
Garcia de Orta, Botânica
Gardens' Bulletin, Singapore
Gartenamt
Gartner Tidende
Gatekeeper Series, Sustainable Agriculture Programme, International Institute for Environment and Development
General Report, Southern Region, USDA Forest Service
General Technical Report, Intermountain Research Station, USDA Forest Service
General Technical Report, North Central Forest Experiment Station, USDA Forest Service
General Technical Report, Northeastern Forest Experiment Station, USDA Forest Service
General Technical Report, Pacific Northwest Research Station, USDA Forest Service
General Technical Report, Pacific Southwest Forest and Range Experiment Station, USDA Forest Service
General Technical Report, Rocky Mountain Forest and Range Experiment Station, USDA Forest Service
General Technical Report, Southeastern Forest Experiment Station, USDA Forest Service
General Technical Report, Southern Forest Experiment Station, USDA Forest Service
Genetica
Genetics
Geobios, India
Geoderma
Geographica Polonica
Geographical Journal
Gesunde Pflanzen
GFG-Report, German Forestry Group, Mulawarman University
Giornale Italiano di Entomologia
Gorsko Stopanstvo Gorska Promishlenost
Gorskostopanska Nauka
Grøn Viden, Havebrug
Great Basin Naturalist
Great Lakes Entomologist
Guest Lecture Series, Institute of Rural Management, Anand, Gujarat
Hardwood Research Cooperative Series, School of Forest Resources, North Carolina State University
Harvest
Haryana Journal of Horticultural Sciences
Helsingin Yliopiston Ympäristönsuojelun Laitoksen Julkaisuja
Hercynia
Hereditas, China
Hereditas, Sweden
Heredity
Hilgardia
Hoja Técnica, Instituto Nacional de Investigaciones Agrarias, Spain
Holarctic Ecology
Holly Society Journal
Holz als Roh- und Werkstoff
Holzforschung
Holzforschung und Holzverwertung
Holzzucht
HortScience
Human Ecology
Human Organization
Hydrobiologia
Hydrological Processes
Hydrology and Water Resources in Arizona and the Southwest
ICRAF Newsletter & Agroforestry Review
ICRAF Reprint, International Council for Research in Agroforestry, Kenya
ICRAF Working Paper, International Council for Research in Agroforestry, Kenya
IDA Development Anthropology Network
Idaho Forest Insect and Disease Report
IEEE Transactions on Geoscience and Remote Sensing
IMPAC Report, Intensive Management Practices Assessment Center, University of Florida
Impact of Science on Society
Indian Farming
Indian Forest Bulletin
Indian Forest Records, Forest Influences
Indian Forest Records, Statistical
Indian Forest Records, Wood Anatomy
Indian Forester
Indian Journal of Agricultural Economics
Indian Journal of Agricultural Sciences
Indian Journal of Biochemistry and Biophysics
Indian Journal of Botany
Indian Journal of Ecology
Indian Journal of Entomology
Indian Journal of Forestry
Indian Journal of Plant Physiology
Indian Journal of Range Management
Indian Perfumer
Información Técnica del Inventario Forestal, Mexico
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Information Report, Northern Forestry Centre, Canada
Information Report, Pacific Forestry Centre, Canada
Information Report, Petawawa National Forestry Institute, Canada
Information Series, TROPENBOS, Netherlands
Informations-Forêt
Informatore Agrario
Informe Técnico, Centro Agronómico Tropical de Investigación y Enseñanza, Costa Rica
Informe Técnico, Estudio Ecológico de los Pinos Centroamericanos en Lugares Seleccionados, Honduras
Informe Técnico, Instituto Forestal, Chile
Insect Knowledge
Insect Science and its Application
Interciencia
International Journal of Biometeorology
International Journal of Environmental Analytical Chemistry
International Journal of Remote Sensing
International Tree Crops Journal
Internationale Zeitschrift der Landwirtschaft
Investigaciones Forestales, Instituto Nacional de los Recursos Naturales Renovables y del Ambiente, Colombia
IPEF (Instituto de Pesquisas e Estudos Florestais)
Iraqi Journal of Agricultural Sciences 'Zanco'
Irish Banking Review
Irish Naturalists' Journal
Israel Journal of Botany
İstanbul Üniversitesi Orman Fakültesi Dergisi, A
ITC Journal, International Institute for Aerial Survey and Earth Sciences
ITE Symposium, Institute of Terrestrial Ecology, Natural Environment Research Council, UK
IUCN/IIED Tropical Forestry Policy Paper
Izvestiya Vysshikh Uchebnykh Zavedenii, Lesnoi Zhurnal
Japanese Journal of Applied Entomology and Zoology
Japanese Journal of Crop Science
Japanese Journal of Ecology
Japanese Journal of Genetics
Japanese Journal of Nematology
Japanese Journal of Tropical Agriculture
JAPCA
JARQ (Japan Agricultural Research Quarterly)
Joint Report, British Columbia Ministry of Forests/Canadian Forestry Service
Joint Report, Great Lakes Forest Research Centre/Ontario Ministry of Natural Resources, Canada
Journal d'Agriculture Traditionnelle et de Botanique Appliquée
Journal of Agricultural and Food Chemistry
Journal of Applied Ecology
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Journal of Arid Environments
Journal of Bamboo Research
Journal of Biogeography
Journal of Chemical Ecology
Journal of Chromatography
Journal of Climate and Applied Meteorology
Journal of Ecology, China
Journal of Ecology, UK
Journal of Economic Entomology
Journal of Entomological Science
Journal of Environmental Management
Journal of Environmental Quality
Journal of Environmental Science and Health, B (Pesticides, Food Contaminants, and Agricultural Wastes)
Journal of Ethology
Journal of Experimental Botany
Journal of Farming Systems
Journal of Food Safety
Journal of Forest History
Journal of Forestry
Journal of General Microbiology
Journal of Heredity
Journal of Horticultural Science
Journal of Hydrology, Netherlands
Journal of Hydrology, New Zealand
Journal of Insect Behavior
Journal of Japanese Society of Grassland Science
Journal of Korean Forestry Society
Journal of Nanjing Institute of Forestry
Journal of Natural History
Journal of Natural Products

Journal of Nematology
Journal of North-East Forestry University, China
Journal of Pesticide Science
Journal of Phytopathology
Journal of Planning and Environmental Law
Journal of Plant Anatomy and Morphology
Journal of Plant Physiology
Journal of Range Management
Journal of Rural Studies
Journal of Scientific & Industrial Research
Journal of Shenyang Agricultural University
Journal of Soil & Water Conservation
Journal of Soil Science, China
Journal of Soil Science, UK
Journal of Taiwan Museum
Journal of the Adelaide Botanic Gardens
Journal of the American Society for Horticultural Science
Journal of the Arnold Arboretum
Journal of the Australian Entomological Society
Journal of the Bombay Natural History Society
Journal of the Faculty of Agriculture, Kyushu University
Journal of the Indian Academy of Wood Science
Journal of the Indian Society of Coastal Agricultural Research
Journal of the Indian Society of Soil Science
Journal of the Japanese Forestry Society
Journal of the Kansas Entomological Society
Journal of the Korean Society for Horticultural Science
Journal of the Korean Society of Grassland Science
Journal of the Royal Society of New Zealand
Journal of the Science of Food and Agriculture
Journal of the Tanzania Association of Foresters
Journal of the Timber Development Association of India
Journal of the Tussock Grasslands and Mountain Lands Institute
Journal of Tree Sciences
Journal of Tropical Ecology
Journal of Tropical Forest Resources
Journal of Tropical Forestry
Journal of Wildlife Management
Journal of World Forest Resource Management
Journal of Zhejiang Forestry Science and Technology
Journal, Forestry Association of Botswana
Karstenia
Kasetsart Journal, Natural Sciences
Kew Bulletin
Kew Magazine
KFRI Research Report, Kerala Forest Research Institute
Khemoretseptsiya Nasekomykh
Khimiya Prirodnykh Soedinenit
Kidma
Klinkii
Korean Journal of Botany
Korean Journal of Genetics
Korean Journal of Plant Pathology
Kulturpflanze
Kungl. Skogs- och Lantbruksakademiens Tidskrift
Lal-Baugh
Land Economics
Land Management Handbook, Ministry of Forests, British Columbia
Land Management Report, Ministry of Forests, British Columbia
Land Use Policy
Landscape and Urban Planning
Laporan, Lembaga Penelitian Hutan, Indonesia
Laporan, Pusat Penelitian dan Pengembangan Hutan, Indonesia
Las Polski
Leaflet — ADAS
Leaflet, Department of Forestry, Agricultural Research Organization, Israel
Leaflet, Division of Forestry, Agricultural Research Organization, Israel
Lesnaya Promyshlennost'
Lesnictví
Lesnoe Khozyaistvo
Lesovedenie
Lounais-Hämeen Luonto
MAB Technical Notes, UNESCO
Madroño
Malayan Nature Journal
Malaysian Forester
Manual Técnico, Centro Agronómico Tropical de Investigación y Enseñanza
Manuscript Reports, International Development Research Centre, Canada
Meddelelser fra Norsk Institutt for Skogforskning
Meddelelser fra Skovbrugsinstituttet, 2 (Forskning), Royal Veterinary and Agricultural University
Mededelingen van de Werkgroep Recreatie, Landbouwuniversiteit Wageningen
Medicinal & Aromatic Plants Abstracts
Meinungen zur Agrar- und Umweltpolitik
Mémoire, Direction de la Recherche et du Developpement, Ministère de l'Energie et des Ressources, Québec
Mémoire, Service de la Recherche (Terres et Forêts), Québec
Memoirs of the Faculty of Agriculture, Kagoshima University
Memoirs of the Faculty of Agriculture, Kinki University
Menara Perkebunan
Mesopotamia Journal of Agriculture
Metsäntutkimuslaitoksen Tiedonantoja, Finland
Metsätehon Katsaus, Finland
Micologia Italiana
Microbiology, USA
Mikologiya i Fitopatologiya
Minnesota Forestry Research Notes
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Miscellaneous Information, Tokyo University Forests
Miscellaneous Publication, College of Tropical Agriculture and Human Resources, University of Hawaii
Miscellaneous Publication, School of Forestry, State University of New York
Mitteilungen der Bundesforschungsanstalt für Forst- und Holzwirtschaft, Hamburg
Mitteilungen der Deutschen Bodenkundlichen Gesellschaft
Mitteilungen der Deutschen Gesellschaft für Allgemeine und Angewandte Entomologie
Mitteilungen der Forstlichen Bundesversuchsanstalt Wien
Mitteilungen der Forstlichen Versuchs- und Forschungsanstalt Baden-Württemberg
Mitteilungen der Versuchsanstalt für Pilzanbau der Landwirtskammer Rheinland Krefeld-Grosshüttenhof
Mitteilungen des Vereins für Forstliche Standortskunde und Forstpflanzenzüchtung, German Federal Republic
Mitteilungen, Eidgenössische Anstalt für das Forstliche Versuchswesen, Switzerland
Mokuzai Gakkaishi (Journal of the Japan Wood Research Society)
Monografías, Instituto Nacional de Investigaciones Agrarias, Spain
Monograph Series, Sardar Patel Institute of Economics and Social Research, India
Mountain Research and Development
Mycologia
Mycological Research
Myforest
Nachrichtenblatt des Deutschen Pflanzenschutzdienstes
Nahrung
Naše Liečivé Rastliny
National Geographer
Naturaliste Canadien
Nature, UK
Nederlands Bosbouwtijdschrift
Nepal Forestry Technical Information Bulletin (NEFTIB), Forest Research and Information Centre, Forest Survey and Research Office, Department of Forests, Nepal
NERC News, Natural Environment Research Council, UK
Netherlands Journal of Plant Pathology
Network Paper, Social Forestry Network, Overseas Development Institute, UK
New Forests
New Phytologist
New Scientist
New Zealand Forestry
New Zealand Journal of Botany
New Zealand Journal of Ecology
New Zealand Journal of Forestry Science
New Zealand Tree Grower
News of Forest History
Newsletter, Forest Department, Zambia
Ningxia Journal of Agro-Forestry Sciences and Technology
Nord Nytt
Nordic Journal of Botany
North American Journal of Fisheries Management
Northern Journal of Applied Forestry
Northwest Science
Norwegian Journal of Agricultural Sciences
Nota Técnica, Escuela Nacional de Ciencias Forestales, Honduras
Nota Técnica, Instituto Nacional de Investigaciones Forestales, Mexico
Note de Recherche Forestière, Direction de la Recherche et du Développement, Ministère de l'Énergie et des Ressources, Québec
Note de Recherche Forestjère, Service de la Recherche (Terres et Forêts), Ministère de l'Énergie et des Ressources, Québec
Note Technique, Institut des Sciences Agronomiques du Rwanda
Note, Service de la Recherche (Terres et Forêts), Ministère de l'Énergie et des Ressources, Québec
Notes et Doçuments, Institut National de la Recherche Agronomique, Économie et Sociologie Rurales, Grignon
Notes et Doçuments, Institut National de la Recherche Agronomique, Économie et Sociologie Rurales, Montpellier
Notes from the Royal Botanic Garden, Edinburgh
Notulae Entomologicae
Növényvédelem
Nursery Notes, Ministry of Natural Resources, Ontario
Nutrition Research
Occasional Paper, Faculty of Forestry, Universiti Pertanian Malaysia

Occasional Paper, Forestry Commission, UK
Oecologia
OFI Occasional Papers, Oxford Forestry Institute, University of Oxford
Oikos
Ormancılık Araştırma Enstitüsü Yayınları, Muhtelif Yayınlar
Oryx
Outlook on Agriculture
Overseas Research Publication Series, Overseas Development Administration, UK
Pacific Science
Pakistan Journal of Forestry
Pan-Pacific Entomologist
Paper, American Society of Agricultural Engineers
Paper, British Columbia Ministry of Energy, Mines and Petroleum Resources
Parasitica
Pastos
PE&RS (Photogrammetric Engineering and Remote Sensing)
Pedobiologia
Periodicum Biologorum
Periodieke Rapportage, Landbouw-Economisch Instituut, Netherlands
Pertanika
Pest Leaflet, Pacific Forest Research Centre, Canada
Pesticide Science
Pesticides
PGRC/E-ILCA Germplasm Newsletter, International Livestock Centre for Africa
Pharmazie
Philippine Lumberman
Photo Interprétation: Images Aériennes et Spatiales
Physiologia Plantarum
Physiological and Molecular Plant Pathology
Phytochemistry
Phytocoenologia
Phytoma
Phytomorphology
Phyton, Argentina
Phyton, Austria
Phytoparasitica
Phytopathology
Phytophylactica
Pirineos
Pittieria, Universidad de los Andes, Venezuela
Plant and Soil
Plant Cell Reports
Plant Disease
Plant Health Information Sheet, Forestry Commission, UK
Plant Pathology
Plant Physiology
Plant Physiology & Biochemistry, India
Plant Physiology and Biochemistry, France
Plant Physiology Communications
Plant Propagator
Plant Protection Quarterly
Plant Research and Development
Plant Science, Irish Republic
Plant, Cell and Environment
Planta
Planta Medica
Plantsman
Pol'nohospodarstvo
Polish Journal of Soil Science
Polskie Pismo Entomologiczne
Populier
Potash Review
Preslia
Přírodovědné Práce Ústavů Československé Akademie Věd v Brně
Problems of Desert Development
Proceedings of the Entomological Society of Washington
Proceedings of the Florida State Horticultural Society
Proceedings of the Indian Academy of Sciences, Animal Sciences
Proceedings of the Indian Academy of Sciences, Plant Sciences
Proceedings of the Indian National Science Academy, B (Biological Sciences)
Proceedings of the Indiana Academy of Science
Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen, Series C: Biological and Medical Sciences
Proceedings of the National Academy of Sciences of the United States of America
Proceedings of the National Science Council, A (Physical Science and Engineering), Taiwan
Proceedings of the Royal Society of London, B (Biological Sciences)
Progress in Physical Geography
Protoplasma
Przemysł Drzewny
Public Health
Publicación Especial, Instituto Nacional de Investigaciones Forestales, Mexico
Publicación Miscelánea, Escuela Nacional de Ciencias Forestales, Honduras
Publicación Técnica, Centro de Investigaciones y Experiencias Forestales, Argentina
Publicación Técnica, Facultad de Ciencias Agrarias, Universidad Nacional del Nordeste, Argentina
Publication, Dhamar Agricultural Improvement Centre, Yemen Arab Republic
Publication, Forest Survey and Research Office, Department of Forests, Nepal
Publication, Soil Conservation Centre, Aokautere, New Zealand
Publikatie, Landbouw-Economisch Instituut, Netherlands
Quarterly Journal of Chinese Forestry
Quarterly Journal of Forestry
Radovi, Institut za Topolarstvo, Novi Sad
RAPA Publication, FAO Regional Office for Asia and the Pacific
Rapport, Avdelningen för Energiskogsodling, Institutionen för Ekologi och Miljövård, Sveriges Lantbruksuniversitet
Rapport, Avdelningen för Skogsuppskattning och Skogsindelning, Sveriges Lantbruksuniversitet
Rapport, Institutionen för Ekonomi, Sveriges Lantbruksuniversitet
Rapport, Institutionen för Skoglig Genetik och Växtfysiologi, Sveriges Lantbruksuniversitet
Rapport, Institutionen för Skogsproduktion, Sveriges Lantbruksuniversitet
Rapport, Institutionen för Skogsskötsel, Sveriges Lantbruksuniversitet
Rapport, Institutionen för Skogstaxering, Sveriges Lantbruksuniversitet
Rapport, Institutionen för Skogsteknik, Sveriges Lantbruksuniversitet
Rapport, Institutionen för Virkeslära, Sveriges Lantbruksuniversitet
Rapport, Norsk Institutt for Skogforskning
Rapport, Rijksinstituut voor Onderzoek in de Bos- en Landschapsbouw 'De Dorschkamp'
Rapporter i Skogsekologi och Skoglig Marklära, Institutionen för Skoglig Marklära, Sveriges Lantbruksuniversitet
Rapporter, Statistik Sentralbyrå
Rasteniev"dni Nauki
Rastitel'nye Resursy
Remote Sensing of Environment
Report, Channel Link Studies, Wye College, University of London
Report, Hydraulics Research Limited, UK
Report, Institute of Development Studies, University of Helsinki
Report, Institute of Hydrology, UK
Report, Methods Application Group, Forest Pest Management, USDA Forest Service
Report, Mulga Research Centre, Australia
Report, South African Forestry Research Institute
Reporte Científico, Facultad de Silvicultura y Manejo de Recursos Renovables, Universidad Autónoma de Nuevo León
Reports from the Botanical Institute, University of Aarhus
Research and Development in Agriculture
Research and Survey in Nature Conservation
Research Bulletin of the Experiment Forests, Kangweon National University
Research Bulletin of the Faculty of Agriculture, Gifu University
Research Bulletin, Agricultural Experiment Station, Purdue University
Research Bulletin, Agriculture Research Center, Washington State University
Research Bulletin, Ohio Agricultural Research and Development Center
Research Bulletins of the College Experiment Forests, Hokkaido University
Research Extension Series, Hawaii Institute of Tropical Agriculture
Research Information Note, Forestry Commission, UK
Research Note, Department of Forestry, Queensland
Research Note, Division of Forest Research, Forest Department, Zambia
Research Note, Forest Service, Research Branch, Bray, Irish Republic
Research Note, Forestry Commission, New South Wales
Research Note, Intermountain Research Station, USDA Forest Service
Research Note, Pacific Northwest Research Station, USDA Forest Service
Research Note, Taiwan Forestry Research Institute
Research of Forest Ecosystem
Research Paper, Northeastern Forest Experiment Station, USDA Forest Service
Research Paper, Pacific Northwest Forest and Range Experiment Station, USDA Forest Service
Research Paper, Pacific Northwest Research Station, USDA Forest Service
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Research Paper, Rocky Mountain Forest and Range Experiment Station, USDA Forest Service
Research Paper, Southeastern Forest Experiment Station, USDA Forest Service

Research Paper, Southern Forest Experiment Station, USDA Forest Service
Research Paper, USDA Forest Service, Washington, DC
Research Report of the Institute of Forest Genetics, Korea Republic
Research Report, Agricultural Experiment Station, Oklahoma State University
Research Report, Investigación Forestal, Cartón de Colombia
Research Report, Mississippi Agricultural and Forestry Experiment Station
Research Report, School of Forestry and Wildlife Management, Louisiana Agricultural Experiment Station
Research Report, School of Forestry, Wildlife, and Fisheries, Louisiana State University Agricultural Center
Research Series, College of Tropical Agriculture and Human Resources, University of Hawaii
Research Study Series, Agrarian Research and Training Institute, Sri Lanka
Resource Bulletin, Intermountain Forest and Range Experiment Station, USDA Forest Service
Resource Bulletin, Intermountain Research Station, USDA Forest Service
Resource Bulletin, North Central Forest Experiment Station, USDA Forest Service
Resource Bulletin, Northeastern Forest Experiment Station, USDA Forest Service
Resource Bulletin, Pacific Northwest Forest and Range Experiment Station, USDA Forest Service
Resource Bulletin, Pacific Northwest Research Station, USDA Forest Service
Resource Bulletin, Rocky Mountain Forest and Range Experiment Station, USDA Forest Service
Resource Bulletin, Southeastern Forest Experiment Station, USDA Forest Service
Resource Bulletin, Southern Forest Experiment Station, USDA Forest Service
Resource Management and Optimization
Resources Policy
Resources, Conservation and Recycling
Review of Palaeobotany and Palynology
Review of Palaeoecology and Palynology
Revista Árvore
Revista Brasileira de Ciência do Solo
Revista Colombiana de Entomologia
Revista de la Facultad de Agronomía, Universidad Central de Venezuela
Revista de la Facultad de Agronomía, Universidad de Buenos Aires
Revista do Sector de Ciências Agrárias
Revista Forestal Baracoa
Revista Forestal del Perú
Revista Theobroma
Revue d'Analyse Spatiale Quantitative et Appliquée
Revue d'Écologie et de Biologie du Sol
Revue d'Écologie: la Terre et la Vie
Revue de Géographie Alpine
Rhodora
RIC Bulletin
Rivista di Agricoltura Subtropicale e Tropicale
Rocznik Dendrologiczny
Roczniki Gleboznawcze
Roczniki Nauk Rolniczych, E (Ochrona Roślin)
Rodriguésia
Rural Sociology
Sabah Forest Record
Sanrimgwahak (Forest Science)
Sarawak Gazette
Scandinavian Forest Economics
Schriften aus der Forstlichen Fakultät der Universität Göttingen und der Niedersächsischen Forstlichen Versuchsanstalt
Schriften des Forschungsinstitutes für Schnellwachsende Baumarten, German Federal Republic
Schriftenreihe der GTZ, Deutsche Gesellschaft für Technische Zusammenarbeit
Schriftenreihe des Bundesministers für Ernährung, Landwirtschaft und Forsten, A (Angewandte Wissenschaft), German Federal Republic
Schweizerische Zeitschrift für Forstwesen
Science and Practice of Agroforestry, International Council for Research in Agroforestry, Kenya
Science Bulletin of the College of Agriculture, University of the Ryukyus, Okinawa
Science of the Total Environment
Science, USA
Scientia Silvae Sinicae
Scientific Reports of the Kyoto Prefectural University, Agriculture
Scottish Forestry
Seed Science and Technology
SEESOIL (South East England Soils Discussion Group)
Separate Issue from the Bulletin of the Faculty of Agriculture, Shimane University, Forestry and Wood Technology
Serie Educativa, Facultad de Ciencias Forestales, Universidad de Chile
Serie Miscelánea, Escuela Nacional de Ciencias Forestales, Honduras
Serie Técnica, Corporación Nacional de Investigación y Fomento Forestal, Colombia
Serie Técnica, Fundação de Pesquisas Florestais do Paraná, Brazil
Shade Tree
Silva Fennica
Silva Gandavensis
Silvae Genetica
Silvoenergía, Proyecto Cultivo de Árboles de Uso Múltiple, CATIE, Costa Rica
Silvoenergía, Proyecto Leña y Fuentes Alternas de Energía, CATIE, Costa Rica
Singapore Journal of Tropical Geography
Skogen
Smithsonian Contributions to Botany
Social Action
Socio-Economic Planning Sciences
Soil Biology & Biochemistry
Soil Science
Soil Science and Plant Nutrition
Soil Science Society of America Journal
Soil Technology
Soil Use and Management
South African Forestry Journal
South African Journal of Botany
South African Journal of Plant and Soil
South African Journal of Science
South African Journal of Wildlife Research
South Indian Horticulture
Southern Journal of Applied Forestry
Southwestern Naturalist
Soviet Agricultural Sciences
Soviet Journal of Ecology
Soviet Meteorology and Hydrology
Soviet Plant Physiology
Soviet Soil Science
Sozialistische Forstwirtschaft
Special Publication, Forest Research Laboratory, Oregon State University
Special Report, Forest Engineering Research Institute of Canada
Sri Lanka Journal of Tea Science
Stad & Land
Staff Paper, Department of Forest Resources, University of Minnesota
Station Bulletin, Agricultural Experiment Station, University of Minnesota
Station Note, Forest, Wildlife and Range Experiment Station, University of Idaho
Stencil, Institutionen för Skogsproduktion, Sveriges Lantbruksuniversitet
Studia Forestalia Suecica
Studia Oecologica
Studies of the San'in Region, Forest Resources, Center for Studies of the San'in Region, Shimane University
Studii şi Cercetări de Biologie, Biologie Vegetală
Sudan Silva
Suo
Svensk Botanisk Tidskrift
Sylvatrop
Sylwan
Systematic Botany
Tanzania Silviculture Research Note
Tappi Journal
Tarım ve Mühendislik
Taxon
Technical Bulletin of the Forest Products Research Institute, Ghana
Technical Bulletin, Agricultural Experiment Station, University of Minnesota
Technical Bulletin, Experimental Forest of National Taiwan University
Technical Bulletin, Faculty of Horticulture, Chiba University
Technical Bulletin, Maine Agricultural Experiment Station
Technical Bulletin, Mississippi Agricultural and Forestry Experiment Station
Technical Note, Division of Forest Products Research, Forest Department, Zambia
Technical Note, Forest Engineering Research Institute of Canada
Technical Note, Oji Institute for Forest Tree Improvement, Japan
Technical Note, Timbers of Zambia, Division of Forest Products Research, Forest Department, Zambia
Technical Report, Forest Engineering Research Institute of Canada
Technology
Tecnologia en Marcha
Teknisk Rapport, Projekt Energiskogsodling (ESO), Sveriges Lantbruksuniversitet
Telopea
Terra e Sole
Tetrahedron
Tetrahedron Letters
Texas Journal of Science

Thai Forest Bulletin (Botany)
Theoretical and Applied Genetics
Tiedonantoja, Helsingin Yliopiston Kansantaloudellisen Metsäekonomian Laitos, Finland
Tiedote, Metsänjalostussäätiö, Finland
Transactions of Indian Society of Desert Technology
Transactions of the ASAE, American Society of Agricultural Engineers
Transactions of the British Mycological Society
Transactions of the Illinois State Academy of Science
Transactions of the Mycological Society of Japan
Transactions of the Royal Society of Edinburgh: Earth Sciences
Transactions, Botanical Society of Edinburgh
Transactions, Institute of British Geographers
Tree Physiology
Tree-Ring Bulletin
Trends in Ecology and Evolution
Tropenbos Technical Series
Tropical Agriculture, German Federal Republic
Tropical and Subtropical Forest Ecosystem, Ding Hu Shan Forest Ecosystem Stationary, China
Tropical Ecology
Tropical Forestry Papers, Oxford Forestry Institute, University of Oxford
Tropical Forestry Research Note, Office of Forests, Papua New Guinea
Tropical Grasslands
Tropicultura
Trudy Vsesoyuznogo Ėntomologicheskogo Obshchestva
Tuexenia
Turrialba
Työtehoseuran Julkaisuja, Finland
Työtehoseuran Metsätiedote, Finland
UAS Technical Series, University of Agricultural Sciences, India
Uitvoerig Verslag, Rijksinstituut voor Onderzoek in de Bos- en Landschapsbouw 'De Dorschkamp', Netherlands
Ukraïns'kiĭ Botanīchniĭ Zhurnal
Unasylva
UNEP Environmental Management Guidelines, United Nations Environment Programme
UP Forest Bulletin, Forest Department, Uttar Pradesh
Vækst
Van Vigyan
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Vita in Campagna
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Wood Science and Technology
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World Animal Review
World Development
Worldwatch Paper, Worldwatch Institute, USA
WSDG Report, Watershed Systems Development Group, USDA Forest Service
Zashchita Rasteniĭ, Moscow
Zaštita Bilja
Zborník Slovenského Národného Múzea, Prírodné Vedy
Zeitschrift für Kulturtechnik und Flurbereinigung
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Zentralblatt für Mikrobiologie
Zoologicheskiĭ Zhurnal

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The Organization
CAB International (CABI) is an international, intergovernmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 29, but membership is open to all governments who wish to participate. Established in 1928, the organization provides information, scientific, and development services for agriculture and allied disciplines throughout the world.

Information Services
The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

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Pastures & Field Crops
Crop Protection
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Plant Breeding & Genetics
Soils
Forestry

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Scientific Services
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CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services, (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

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The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilties. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and information retrieval and PAGER for typesetting.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

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